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## **FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) Renewal OFFICE OF AIR QUALITY**

**Irving Materials, Inc. - DBA Park Asphalt  
2725 South Hoyt Ave.  
Muncie, Indiana 46302**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F035-14779-03252	
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 6, 2002  Expiration Date: September 6, 2007

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary hot mix asphalt concrete plant.

Authorized individual:	Steve Henderson, Regulatory Affairs Director
Source Address:	2725 South Hoyt Ave., Muncie, Indiana 46302
Mailing Address:	286 W 300 N, Anderson, Indiana 46012
SIC Code:	2951
Source Location Status:	Delaware
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) one (1) aggregate drum mix dryer, identified as emission unit No. 2, constructed in 1971, with a maximum capacity of 170 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 75.6 million (MM) British thermal units (Btu) per hour using natural gas as a back-up fuel and one (1) wet scrubber for air pollution control, exhausting at one (1) stack, identified as SV-1;
- (b) one (1) drag slat conveyor, two (2) feeder conveyors, one (1) Reclaimed Asphalt Pavement (RAP) feeder conveyor, and one (1) screen; and
- (c) cold mix (stockpile mix) asphalt storage piles.

### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

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This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 9, rated at 2.353 MMBtu per hour using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV-2;
- (b) one (1) cold feed system consisting of five (5) bins with a total aggregate holding capacity of 150 tons;
- (c) one (1) mix storage bin with a maximum storage capacity of 90 tons;
- (d) one (1) Reclaimed Asphalt Pavement (RAP) feed system;
- (e) one (1) No. 2 distillate fuel oil storage tank, identified as Tank 11, installed in 1960, with a maximum storage capacity of 10,000 gallons, exhausting at one stack, identified as SV-4;

- (f) one (1) asphalt cement storage tank, identified as Tank 12, installed in 1960, with a maximum storage capacity of 18,000 gallons, exhausting at one stack, identified as SV-3;
- (g) aggregate storage piles, with a maximum storage capacity of 13,000 tons;
- (h) RAP storage piles, with a maximum storage capacity of 5,000 tons; and
- (i) one (1) materials testing lab.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

## SECTION B GENERAL CONDITIONS

### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

### B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

### B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

### B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).



- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

**B.14 Emergency Provisions [326 IAC 2-8-12]**

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

**B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.19 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]**

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- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
  
and  
  
United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590  
  
in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
  - (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.  
  
Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).
- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

**B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source
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### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention Of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

#### C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.



C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

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The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on December 31, 1996. The source shall continue to comply with all the dust abatement measures of the dust control plan which consists of the following:

- (a) Fugitive particulate matter emissions from interior roads and parking lots shall be controlled by one or more of the following measures:
  - (1) paving with asphalt;
  - (2) treating with emulsified asphalt on an as needed basis;
  - (3) treating with Calcium Chloride on an as needed basis;
  - (4) treating with water on an as needed basis.
- (b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following measures:
  - (1) clean and maintain stockpile areas;
  - (2) treating around the stockpile areas with water on an as needed basis;
  - (3) treating the stockpiles with water on an as needed basis.
- (c) Fugitive particulate matter emissions from conveying of aggregates shall be controlled by treating with water on an as needed basis.
- (d) Fugitive particulate matter emissions from the transferring of aggregates shall be controlled by one or more of the following measures:
  - (1) locate stockpiles as close as possible to feed bins;
  - (2) limit transfer points to three foot drops or less;
  - (3) apply water on an as needed basis.
- (e) Fugitive particulate matter emissions from the transporting of aggregates shall be controlled by one or more of the following measures:
  - (1) tarping the aggregate hauling vehicles;
  - (2) insure tailgates are tight and do not leak;
  - (3) maintain a 10 MPH speed limit on site.
- (f) Fugitive particulate matter emissions from the loading and unloading of aggregates shall be controlled by one or more of the following measures:
  - (1) limit free fall distance;

- (2) limit the rate of discharge of the aggregate;
- (3) apply water on an as needed basis.

(g) Material Handling Operations:

The size of the aggregate stockpiles will vary. Materials delivered to the plant site will be kept reasonably balanced with plant production. The actual drying and mixing of the aggregate mixture is done inside the asphalt plant. Emissions are controlled, at this point, by plant dust control systems.

C.8 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.9 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.10 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.11 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

## **Compliance Requirements [326 IAC 2-1.1-11]**

### **C.12 Compliance Requirements [326 IAC 2-1.1-11]**

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

## **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

### **C.13 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

### **C.14 Maintenance of Emission Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]**

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no often less than once an hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

### **C.15 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

### **C.16 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]**

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.
- (b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.17 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

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If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**C.18 Compliance Response Plan - Preparation, Implementation, Records, and Reports  
[326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
  - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
  - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall constitute a violation of the permit.

- (c) The Permittee is not required to take any further response steps for any of the following reasons:
  - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

### **C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

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- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

### **C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

## **Stratospheric Ozone Protection**

### **C.22 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.



## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (a) one (1) aggregate drum mix dryer, identified as emission unit No. 2, constructed in 1971, with a maximum capacity of 170 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 75.6 million (MM) British thermal units (Btu) per hour using natural gas as a back-up fuel and one (1) wet scrubber for air pollution control, exhausting at one (1) stack, identified as SV-1

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the aggregate drying operation shall not exceed 56.76 pounds per hour when operating at a process weight rate of 170 tons per hour. The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour.

#### D.1.2 Particulate Matter Less Than 10 Microns (PM-10) [326 IAC 2-8-4]

PM-10 emissions from the aggregate mixing and drying operation shall be limited to 0.11 pounds of PM-10 emitted per ton of asphalt produced, including both filterable and condensable fractions. Compliance with this limit shall limit the source's potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

#### D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 75.6 million British thermal units per hour burner for the aggregate drum mix dryer shall be limited to 0.5 pound per MMBtu heat input or a maximum allowable sulfur content of 0.5% when using No. 2 distillate fuel oil.

Pursuant to 326 IAC 7-1.1-2, this sulfur dioxide limit applies at all times including periods of startup, shutdown, and malfunction. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

#### D.1.4 No. 2 Fuel Usage and Equivalents [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4(1), the following limits shall apply:

- (a) the input of No. 2 distillate fuel oil and No. 2 distillate fuel oil equivalents in the 75.6 MMBtu per hour burner for the aggregate dryer shall be limited to 2,750,826 gallons per twelve (12) consecutive month period, rolled on a monthly basis, so that SO<sub>2</sub> emissions are limited below 100 tons per year.

- (b) For purposes of determining compliance, every million cubic feet (MMCF) of natural gas burned shall be equivalent to 8.7 gallons of No. 2 distillate fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 distillate fuel oil, plus equivalent No. 2 distillate fuel oil equivalent input does not exceed the limit specified.

Therefore, the requirements of 326 IAC 2-7 will not apply.

**D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**Compliance Determination Requirements**

**D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

During the period between February 2004 - July 2004, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM-10 testing utilizing methods, as approved by the Commissioner for PM and PM-10. PM-10 includes filterable and condensable PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

**D.1.7 Particulate Matter (PM)**

The scrubber for PM and PM10 control shall be in operation at all times when the aggregate dryer and burner are in operation.

**D.1.8 Sulfur Dioxide Emissions and Sulfur Content**

Compliance with Condition D.1.3 shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 0.5 pounds per million Btu heat input when firing No. 2 distillate fuel oil by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 75.6 MMBtu per hour heater, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

## **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

### **D.1.9 Visible Emissions Notations**

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- (a) Visible emission notations of the mixing and drying operation stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

### **D.1.10 Parametric Monitoring**

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The Permittee shall record the total static pressure drop and scrubbing liquid (water) flow rate readings from the wet scrubber used in controlling the mixing and drying operations, at least per shift when the mixing and drying process is in operation. When for any one reading, the pressure drop across the wet scrubber is outside the normal range of 10 and 20 inches of water or the flow rate for scrubbing liquid is outside the normal range of 450 and 500 gallons of water per minute or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

### **D.1.11 Scrubber Inspections**

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An inspection shall be performed each calendar quarter of the scrubber controlling the drum-mix aggregate mixing/drying operations.

#### D.1.12 Scrubber Failure Detection

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In the event that scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### D.1.13 Record Keeping Requirements

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- (a) To document compliance with Conditions D.1.3, D.1.4 and D.1.8 the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Conditions D.1.3 and D.1.4.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Monthly fuel usages;
  - (2) Average heating value of the fuels;
  - (3) Average sulfur dioxide (SO<sub>2</sub>) emission rate for each fuel type combusted per month (pounds SO<sub>2</sub> per million Btu)
  - (5) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
- If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:
- (6) Fuel supplier certifications;
  - (7) The name of the fuel supplier; and
  - (8) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with condition D.1.9, the Permittee shall maintain once per shift records of visible emission notations of the mixing and drying operation stack exhaust.

- (c) To document compliance with Condition D.1.10, the Permittee shall maintain the following:
  - (1) records of the differential pressure during normal operation;
  - (2) scrubbing liquid (water) flow rate.
- (d) To document compliance with Condition D.1.11, the Permittee shall maintain records of the results of the inspections required under Condition D.1.11.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.4 shall be submitted to the address(es) listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (c) cold-mix (stockpile mix) asphalt manufacturing operations.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.2.1 Cold-Mix (Stockpile Mix) VOC Usage [326 IAC 2-8-4]

Emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall be limited to 207.1 tons of VOC solvent per twelve (12) consecutive month period. This is equivalent to limiting the VOC emitted from solvent use to less than 96.12 tons per 12 consecutive month period, based on the following definition:

Emulsified asphalt with solvent shall be limited to a maximum of 15 percent (%) of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, shall be 7% or less of the total emulsion by volume.

### Compliance Determination Requirements

#### D.2.2 VOC Emissions

Compliance with Condition D.2.1 shall be demonstrated within 30 days of the end of each month based on the VOC solvent emulsified asphalt binder usage for the most recent twelve (12) month period.

### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.2.3 Record Keeping Requirements

To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (a) through (d) below. Records maintained for (a) through (d) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.1.

- (a) Calendar dates covered in the compliance determination period;
- (b) Emulsified asphalt binder usage per month since the last compliance determination period;
- (c) VOC solvent content by weight of the emulsified asphalt binder used each month; and
- (d) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.4 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Irving Materials, Inc. - DBA Park Asphalt  
Source Address: 2725 South Hoyt Ave., Muncie, Indiana 46302  
Mailing Address: 286 W 300 N, Anderson, Indiana 46012  
FESOP No.: 035-14779-03252

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Affidavit (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Irving Materials, Inc. - DBA Park Asphalt  
Source Address: 2725 South Hoyt Ave., Muncie, Indiana 46302  
Mailing Address: 286 W 300 N, Anderson, Indiana 46012  
FESOP No.: 035-14779-03252

**This form consists of 2 pages**

**Page 1 of 2**

**9** This is an emergency as defined in 326 IAC 2-7-1(12)  
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and  
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Irving Materials, Inc. - DBA Park Asphalt  
Source Address: 2725 South Hoyt Ave., Muncie, Indiana 46302  
Mailing Address: 286 W 300 N, Anderson, Indiana 46012  
FESOP No.: F035-14779-03252  
Facility: Aggregate dryer  
Parameter: Sulfur Dioxide (SO<sub>2</sub>)  
Limit:

The input of No. 2 distillate fuel oil, plus equivalent No. 2 distillate fuel oil equivalents in the 75.6 MMBtu per hour burner for the aggregate dryer shall be limited to 2,750,826 gallons per twelve (12) consecutive month period, so that SO<sub>2</sub> emissions are limited below 100 tons per year.

YEAR: \_\_\_\_\_

Month	No. 2 distillate fuel oil (& equivalents) usage this month (gallons)	No. 2 distillate fuel oil(& equivalents usage) previous 11 months (gallons)	No. 2 distillate fuel oil (& equivalents usage) last 12 months (gallons)
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this month.

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Irving Materials, Inc. - DBA Park Asphalt  
Source Address: 2725 South Hoyt Ave., Muncie, Indiana 46302  
Mailing Address: 286 W 300 N, Anderson, Indiana 46012  
FESOP No.: F035-14779-03252  
Facility: Cold-mix (stockpile mix) asphalt manufacturing operations  
Parameter: VOC solvent in emulsified asphalt binder used in the production of cold mix asphalt  
Limit: 207.1 tons of solvent per twelve (12) consecutive month period.

YEAR: \_\_\_\_\_

Month	VOC Solvent Usage This Month (Tons per Month)	VOC Solvent Usage Previous 11 Months (Tons)	VOC Solvent Usage the Last 12 Months (Tons)
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Irving Materials, Inc. - DBA Park Asphalt  
Source Address: 2725 South Hoyt Ave., Muncie, Indiana 46302  
Mailing Address: 286 W 300 N, Anderson, Indiana 46012  
FESOP No.: F035-14779-03252

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management  
Office of Air Quality**

**Addendum to the  
Technical Support Document (TSD) for a Federally Enforceable State Operating  
Permit (FESOP) Renewal**

<b>Source Name:</b>	Irving Materials, Inc. - DBA Park Asphalt
<b>Source Location:</b>	2725 South Hoyt Ave., Muncie, Indiana 46302
<b>SIC Code:</b>	2951
<b>County:</b>	Delaware
<b>Operation Permit No.:</b>	F035-14779-03252
<b>Permit Reviewer:</b>	Alic Bent /EVP

On August 2, 2002, the Office of Air Quality (OAQ) had a notice published in the Muncie Star Press in Muncie, Indiana, stating that Irving Materials, Inc. - DBA Park Asphalt had applied for a FESOP Renewal for the stationary hot mix asphalt concrete plant. The notice also stated that OAQ proposed to issue a FESOP Renewal for this source and provided information on how the public could review the proposed FESOP Renewal and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP Renewal should be issued as proposed.

On August 27, 2002, Steve Henderson, Regulatory Affairs Director at Irving Materials, Inc. submitted comments on the proposed permit. The summary of the comment and corresponding response is as follows:

**Comment 1**

Please change the testing period to reflect the last testing date of May 1999.

**Response 1**

The testing period has been changed as follows:

**D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

During the period between ~~March February~~ 2002~~4~~ - ~~September July~~ 200~~2~~~~4~~, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM-10 testing utilizing methods, as approved by the Commissioner for PM and PM-10. PM-10 includes filterable and condensable PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

Upon further review, the OAQ has decided to make the following changes to the FESOP Renewal. Bolded language has been added and the language with a line through it has been deleted.

1. Previously, the terms "particulate" and "particulate matter" were both used in the 326 IAC 6-3, but revisions were made to the rule which became effective on June 12, 2002 that included using the term "particulate" is used consistently in 326 IAC 6-3.

D.1.1 ~~Particulate Matter (PM)~~ [326 IAC 6-3-2]

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Pursuant to 326 IAC 6-3-2 (~~Process Operations~~ **Particulate Emission Limitations for Manufacturing Processes**), the **allowable** particulate ~~matter~~ emissions **rate** from the aggregate drying operation shall not exceed 56.76 pounds per hour **when operating at a process weight rate of 170 tons per hour. The pounds per hour limitation was calculated using the following equation:**

**Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:**

$$E = 4.10 P^{0.67}$$

where **E** = rate of emission in pounds per hour; and  
**P** = process weight rate in tons per hour.



## **Indiana Department of Environmental Management Office of Air Quality**

### **Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) Renewal**

#### **Source Background and Description**

**Source Name:** Irving Materials, Inc. - DBA Park Asphalt  
**Source Location:** 2725 South Hoyt Ave., Muncie, Indiana 46302  
**County:** Delaware  
**SIC Code:** 2951  
**Operation Permit No.:** F035-14779-03252  
**Permit Reviewer:** Alic Bent/EVP

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Irving Materials, Inc. - DBA Park Asphalt relating to the operation of a hot mix asphalt concrete plant. Irving Materials, Inc. - DBA Park Asphalt was issued FESOP 035-7957-03252 on May 21, 1997.

#### **Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) one (1) aggregate drum mix dryer, identified as emission unit No. 2, constructed in 1971, with a maximum capacity of 170 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 75.6 million (MM) British thermal units (Btu) per hour using natural gas as a back-up fuel and one (1) wet scrubber for air pollution control, exhausting at one (1) stack, identified as SV-1;
- (b) one (1) drag slat conveyor, two (2) feeder conveyors, one (1) Reclaimed Asphalt Pavement (RAP) feeder conveyor, and one (1) screen; and
- (c) cold mix (stockpile mix) asphalt storage piles.

#### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

#### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 9, rated at 2.353 MMBtu per hour using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV-2;
- (b) one (1) cold feed system consisting of five (5) bins with a total aggregate holding capacity of 150 tons;

- (c) one (1) mix storage bin with a maximum storage capacity of 90 tons;
- (d) one (1) Reclaimed Asphalt Pavement (RAP) feed system;
- (e) one (1) No. 2 distillate fuel oil storage tank, identified as Tank 11, installed in 1960, with a maximum storage capacity of 10,000 gallons, exhausting at one stack, identified as SV-4;
- (f) one (1) asphalt cement storage tank, identified as Tank 12, installed in 1960, with a maximum storage capacity of 18,000 gallons, exhausting at one stack, identified as SV-3;
- (g) aggregate storage piles, with a maximum storage capacity of 13,000 tons;
- (h) RAP storage piles, with a maximum storage capacity of 5,000 tons; and
- (i) one (1) materials testing lab.

### **Existing Approvals**

- (a) FESOP 035-7957-03252, issued on May 21, 1997.

All conditions from previous approvals were incorporated into this FESOP.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on August 16, 2001.

There was no notice of completeness letter mailed to the source.

### **Emission Calculations**

See Appendix A, pages 1 through 11 of this document for detailed emissions calculations.

## Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	20,983.0
PM-10	4,876.14
SO <sub>2</sub>	168.31
VOC	1,567.74
CO	28.68
NO <sub>x</sub>	48.78

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	PTE (tons/year)
Arsenic	less than 10
Benzene	less than 10
Beryllium	less than 10
Cadmium	less than 10
Chromium	less than 10
Ethylbenzene	less than 10
Formaldehyde	less than 10
Hexane	less than 10
Isooctane	less than 10
Lead	less than 10
Manganese	less than 10
Mercury	less than 10
Methyl Chloroform	less than 10
Nickel	less than 10
Toluene	less than 10
Total PAH	less than 10
Xylene	less than 10
TOTAL HAPs	less than 25

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM-10, SO<sub>2</sub> and VOC are each equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions  
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, but the source belongs to a New Source Performance Standards source category which, as of August 7, 1980, is being regulated under Section 112 of the Clean Air Act. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

## Potential to Emit After Issuance

The source, issued a FESOP on May 21, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. F035-7957-03252; issued on May 21, 1997.

	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
aggregate dryer/burner <sup>(1)</sup>	62.55	< 81.15 <sup>(2)</sup>	< 94.92	3.82	27.81	33.12	3.55
cold mix VOC storage	-	-	-	< 96.12 <sup>(4)</sup>	-	-	negl.
conveying/handling	4.09	1.95	-	-	-	-	-
storage piles	0.12	0.04	-	-	-	-	-
unpaved roads <sup>(3)</sup>	64.54	16.78	-	-	-	-	-
hot oil heater	0.15	0.08	5.08	0.06	0.87	1.47	negl.
<b>Total PTE After Issuance</b>	<b>131.45</b>	<b>&lt; 100</b>	<b>&lt; 100</b>	<b>&lt; 100</b>	<b>28.68</b>	<b>34.59</b>	<b>3.55</b>

- (1) Limited PTE SO<sub>2</sub> reflects the emissions as a result of fuel oil usage limitation.  
(2) Maximum allowable PM10 emissions in order to comply with 326 IAC 2-8 (FESOP)  
(3) Potential to emit after controls.  
(4) Maximum allowable VOC emissions in order to comply with 326 IAC 2-8 (FESOP).

## County Attainment Status

The source is located in Delaware County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Delaware County has been designated as attainment or unclassifiable for ozone.

### **Federal Rule Applicability**

There are no new federal rules applicable to this source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for original FESOP 035-7957-03252, issued on May 21, 1997.

- (a) The hot mix asphalt plant is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90 through 60.93, Subpart I, because it was constructed in 1971, prior to the rule applicability date of June 11, 1973.
- (b) The 10,000 gallon No. 2 distillate fuel oil storage tank (Tank 11), installed in 1960, is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" since the tank was installed prior to July 23, 1984. The 18,000 gallon asphalt cement storage tank (Tank 12), installed in 1960, is not subject to the New Source Performance Standard, 326 IAC 12 (40 CFR Part 60.110, Subpart K) "Standards of Performance for Storage Vessels for Petroleum Liquids" since the tank was installed prior to June 11, 1973.
- (c) The asphalt plant is not subject to the New Source Performance Standard 326 IAC 12 (40CFR 60.670 through 60.676, Subpart OOO) "Standards of Performance for Nonmetallic Mineral Processing Plants" for recycled asphalt pavement (RAP) usage since the RAP is received onsite ready-to-use, and there is no crushing or grinding of the RAP prior to loading into the first storage silo/bin.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 61, and 326 IAC 20 and 40 CFR Part 63) applicable to this source.

### **State Rule Applicability - Entire Source**

There are no new state rules applicable to the source during this FESOP review process. The applicability determination that follows is based on that conducted for original FESOP 035-7957-03252, issued on May 21, 1997.

#### **326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration, PSD)**

This source is not subject to the requirements of this rule. This source was constructed prior to the rule applicability date of August 7, 1977, is not one of the 28 listed source categories and no major modifications were done, therefore, it is not subject to the requirements of this rule. Based on potential to emit after issuance this is a minor source for PSD.

#### **326 IAC 2-6 (Emission Reporting)**

This source is located in Delaware County which is not one of the specifically listed counties, nor does this FESOP source have the potential to emit CO, VOC, NO<sub>x</sub>, PM<sub>10</sub> (including fugitive emissions), or SO<sub>2</sub> in amounts at or exceeding one-hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-6 still do not apply to the source.

### 326 IAC 2-8-4 (FESOP)

Pursuant to 326 IAC 2-8-4, the following limits shall apply:

- (a) The input of No. 2 distillate fuel oil, plus No. 2 distillate fuel oil equivalents to the 75.6 MMBtu per hour burner for the aggregate dryer shall be limited to 2,750,826 gallons per twelve (12) consecutive month period, so that SO<sub>2</sub> emissions are limited below 100 tons per year. For purposes of determining compliance, every million cubic feet (MMCF) of natural gas burned shall be equivalent to 8.7 gallons of No. 2 distillate fuel oil based on SO<sub>2</sub> emissions, such that the total gallons of No. 2 distillate fuel oil, plus equivalent No. 2 distillate fuel oil equivalent input does not exceed the limit specified. Therefore, the requirements of 326 IAC 2-7 will not apply;
- (b) The potential to emit NO<sub>x</sub> from natural gas combustion for a heat input of 75.6 MMBtu per hour at 8,760 hr/yr is less than 100 tons per year (48.78 tons per year, Appendix A, page 2 of 11). Therefore, limiting NO<sub>x</sub> based on natural gas combustion is not necessary;
- (c) PM-10 emissions from the aggregate mixing and drying operation shall be limited to 0.11 pounds of PM-10 emitted per ton of asphalt produced, including both filterable and condensable fractions. Compliance with this limit shall limit the source's potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, the Part 70 rules (326 IAC 2-7) do not apply;
- (d) Emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall be limited to less than 207.1 tons of VOC solvent per twelve (12) consecutive month period. This is equivalent to limiting the VOC emitted from solvent use to less than 96.12 tons per 12 consecutive month period, based on the following definition:

Emulsified asphalt with solvent - contains a maximum of 15 percent (%) of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, shall be 7% or less of the total emulsion by volume.

Compliance with this condition will limit source-wide VOC to less than 100 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC 2-7 (Part 70) are not applicable.

### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This source is subject to 326 IAC 6-5 for fugitive particulate matter emissions. Pursuant to 326 IAC 6-5, for any new source which has not received all the necessary preconstruction approvals before December 13, 1985, a fugitive dust control plan must be submitted, reviewed and approved. The source shall continue to comply with all the dust abatement measures of the dust control plan submitted on December 31, 1996 which consists of the following:

- (a) Fugitive particulate matter emissions from interior roads and parking lots shall be controlled by one or more of the following measures:
  - (1) paving with asphalt;
  - (2) treating with emulsified asphalt on an as needed basis;
  - (3) treating with Calcium Chloride on an as needed basis;
  - (4) treating with water on an as needed basis.
- (b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following measures:
  - (1) clean and maintain stockpile areas;
  - (2) treating around the stockpile areas with water on an as needed basis;
  - (3) treating the stockpiles with water on an as needed basis.
- (c) Fugitive particulate matter emissions from conveying of aggregates shall be controlled by treating with water on an as needed basis.
- (d) Fugitive particulate matter emissions from the transferring of aggregates shall be controlled by one or more of the following measures:
  - (1) locate stockpiles as close as possible to feed bins;
  - (2) limit transfer points to three foot drops or less;
  - (3) apply water on an as needed basis.
- (e) Fugitive particulate matter emissions from the transporting of aggregates shall be controlled by one or more of the following measures:
  - (1) tarping the aggregate hauling vehicles;
  - (2) insure tailgates are tight and do not leak;
  - (3) maintain a 10 MPH speed limit on site.
- (f) Fugitive particulate matter emissions from the loading and unloading of aggregates shall be controlled by one or more of the following measures:
  - (1) limit free fall distance;
  - (2) limit the rate of discharge of the aggregate;
  - (3) apply water on an as needed basis.

(g) Material Handling Operations:

The size of the aggregate stockpiles will vary. Materials delivered to the plant site will be kept reasonably balanced with plant production. The actual drying and mixing of the aggregate mixture is done inside the asphalt plant. Emissions are controlled, at this point, by plant dust control systems.

**State Rule Applicability - Individual Facilities**

There are no new state rules applicable to this source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for original FESOP 035-7957-03252, issued on May 21, 1997.

326 IAC 6-3-2 (Process Operations)

The aggregate mixing and drying operation is subject to 326 IAC 6-3-2 (Particulate Matter Limitations). Pursuant to this rule, the particulate matter (PM) emissions shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad P = \text{process weight rate in tons per hour} = 170 \text{ ton/hr}$$

$$E = 55.0 (170)^{0.11} - 40 = 56.76 \text{ lb/hr}$$

The wet scrubber shall be in operation at all times the mixing and drying process is in operation, in order to comply with this limit.

PM emissions from the aggregate dryer are controlled to 14.28 lb/hr < 56.76 lb/hr, therefore, the mixing and drying operation are in compliance.

326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations)

The drum mix dryer, identified as emission unit No. 2, is subject to 326 IAC 7-1.1 because it has potential SO<sub>2</sub> emissions of greater than 25 tons per year (limited potential emissions are 94.92 tons per year). Pursuant to this rule, sulfur dioxide emissions from the dryer burner shall be limited to 0.5 pounds per MMBtu for distillate oil combustion. This is equivalent to a maximum allowable sulfur content for No. 2 distillate fuel oil of 0.5%, (see Appendix A: Emission Calculations, page 9 of 11).

326 IAC 7-2-1 (Sulfur Dioxide Reporting Requirements)

Pursuant to this rule, the source shall submit reports of calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate (pounds SO<sub>2</sub> per MMBtu), to the OAQ upon request.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

The source is not subject to this rule. This rule applies to all asphalt paving application constructed after January 1, 1980. This source was constructed prior to the rule applicability date, therefore, 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving) does not apply.



**326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)**

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the specified record keeping and reporting requirements. The storage tanks (SV-3 and SV-4), are not subject to IAC 8-4-3 because their capacities are less than the rule applicability threshold capacity of 39,000 gallons.

**326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)**

The requirements of this rule apply to stationary sources located in Lake, Porter, Clark and Floyd Counties that emit or have the potential to emit VOCs at levels equal to or greater than 25 tons per year in Lake and Porter Counties; 100 tons per year in Clark and Floyd Counties; and to any coating facility that emits or has the potential to emit 10 tons per year or greater in Lake, Porter, Clark or Floyd County. This source is located in Delaware County. Therefore, this rule is not applicable to this source.

**326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)**

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of the rule. Stationary storage vessels subject to any provision of 40 CFR Part 60.110b, New Source Performance Standard for Volatile Organic Liquid Storage, are exempt from this rule. The storage tanks (Tank 11 and Tank 12), are not subject to IAC 8-9 because the source is not located in a specified county.

**Testing Requirements**

All testing requirements from previous approvals were incorporated into this FESOP.

**Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP, except the frequencies for visible emission notations and wet scrubber pressure drop readings have been changed to once per shift.

*Reason changed:* Compliance monitoring conditions are in the permit in order to ensure continuous compliance with the requirements. Wet scrubber failure can occur suddenly; therefore monitoring of wet scrubber operational parameters should be more frequent than weekly or even daily in such cases where a source operates more than one shift per day. The OAQ believes that changing visible emissions notations to once per operating shift is a reasonable requirement. Therefore, the requirements to perform visible emissions notations have been changed from weekly to once per shift. This change likewise applies to the pressure drop readings. The compliance monitoring requirements applicable to this source are as follows:

1. The mixing and drying operation has applicable compliance monitoring conditions as specified below:
  - (a) Visible emissions notations of the drum-mix aggregate dryer/burner stack exhaust, shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee will record whether emissions are normal or abnormal.
  - (b) The Permittee shall record the total static pressure drop and scrubbing liquid (water) flow rate readings from the wet scrubber controlling the drum-mix aggregate dryer, at least once per shift when the respective aggregate dryer is in operation and venting to the atmosphere. When for any one reading, the pressure drop across the wet scrubber is outside the normal range of 10 and 20 inches of water or the flow rate for scrubbing liquid is outside the normal range of 450 and 500 gallons of water per minute or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports.
  - (c) An inspection shall be performed each calendar quarter of the scrubber controlling the drum-mix aggregate mixing/drying operations.
  - (d) In the event that scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

These monitoring conditions are necessary because the wet scrubber for the mixing and drying process must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-8 (FESOP).

### **Conclusion**

The operation of this hot mix asphalt concrete plant shall be subject to the conditions of the attached proposed FESOP No.: F035-14779-03252.

Company Name:

Irving Materials, Inc. - DBA Park Asphalt

Plant Location:

2725 South Hoyt Avenue, Muncie, Indiana 47302

County:

Delaware

Date Received:

August 16, 2001

Permit Reviewer:

Alic Bent

**\*\* hot oil heater\*\***

The following calculations determine the amount of emissions created by natural gas combustion, from hot oil heating, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, and 1.4-2.

<b>Criteria Pollutant:</b>	$\frac{2.353 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} \times 2,000 \text{ lb/ton}}$	* Ef (lb/MMcf) = (ton/yr)
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<b>P M:</b>	7.6 lb/MMcf =	<b>0.08 ton/yr</b>
<b>P M-10:</b>	7.6 lb/MMcf =	<b>0.08 ton/yr</b>
<b>S O 2:</b>	0.6 lb/MMcf =	<b>0.01 ton/yr</b>
<b>N O x:</b>	100.0 lb/MMcf =	<b>1.03 ton/yr</b>
<b>V O C:</b>	5.5 lb/MMcf =	<b>0.06 ton/yr</b>
<b>C O:</b>	84.0 lb/MMcf =	<b>0.87 ton/yr</b>

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.5 % sulfur, from hot oil heating, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-3, and 1.3-7.

<b>Criteria Pollutant:</b>	$\frac{2.353 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} \times 2,000 \text{ lb/ton}}$	* Ef (lb/1,000 gal) = (ton/yr)
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<b>P M:</b>	2.0 lb/1000 gal =	<b>0.15 ton/yr</b>
<b>P M-10:</b>	1.1 lb/1000 gal =	<b>0.08 ton/yr</b>
<b>S O 2:</b>	69.0 lb/1000 gal =	<b>5.08 ton/yr</b>
<b>N O x:</b>	20.0 lb/1000 gal =	<b>1.47 ton/yr</b>
<b>V O C:</b>	0.34 lb/1000 gal =	<b>0.03 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>0.37 ton/yr</b>

Since the two fuels cannot be operated concurrently, the maximum potential emissions from the hot oil heater due to fuel combustion is as follows:

<b>Criteria Pollutant:</b>		<b>Worst Case Fuel</b>
<b>P M:</b>	<b>0.15 ton/yr</b>	No. 2 Fuel Oil
<b>P M-10:</b>	<b>0.08 ton/yr</b>	Natural Gas
<b>S O 2:</b>	<b>5.08 ton/yr</b>	No. 2 Fuel Oil
<b>N O x:</b>	<b>1.47 ton/yr</b>	No. 2 Fuel Oil
<b>V O C:</b>	<b>0.06 ton/yr</b>	Natural Gas
<b>C O:</b>	<b>0.87 ton/yr</b>	Natural Gas

**\*\* aggregate dryer burner\*\***

The following calculations determine the amount of emissions created by natural gas combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3.

<b>Criteria Pollutant:</b>	<b>75.6 MMBtu/hr * 8,760 hr/yr</b>	<b>* Ef (lb/MMcf) = (ton/yr)</b>
	<b>1000 Btu/cf * 2,000 lb/ton</b>	

<b>P M:</b>	7.6 lb/MMcf =	<b>2.52 ton/yr</b>
<b>P M-10:</b>	7.6 lb/MMcf =	<b>2.52 ton/yr</b>
<b>S O 2:</b>	0.6 lb/MMcf =	<b>0.20 ton/yr</b>
<b>N O x:</b>	100.0 lb/MMcf =	<b>33.11 ton/yr</b>
<b>V O C:</b>	0.34 lb/MMcf =	<b>0.11 ton/yr</b>
<b>C O:</b>	84.0 lb/MMcf =	<b>27.81 ton/yr</b>

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.5 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-2, 1.3-4, and 1.3-7.

<b>Criteria Pollutant:</b>	<b>75.6 MMBtu/hr * 8,760 hr/yr</b>	<b>* Ef (lb/1,000 gal) = (ton/yr)</b>
	<b>140,000 Btu/gal * 2,000 lb/ton</b>	

<b>P M:</b>	2.0 lb/1000 gal =	<b>4.73 ton/yr</b>
<b>P M-10:</b>	1.0 lb/1000 gal =	<b>2.37 ton/yr</b>
<b>S O 2:</b>	69.0 lb/1000 gal =	<b>163.23 ton/yr</b>
<b>N O x:</b>	20.0 lb/1000 gal =	<b>47.30 ton/yr</b>
<b>V O C:</b>	0.20 lb/1000 gal =	<b>0.47 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>11.83 ton/yr</b>

Since the two fuels cannot be operated concurrently, the maximum potential emissions from the aggregate dryer due to fuel combustion is as follows:

<b>Criteria Pollutant:</b>		<b>Worst Case Fuel</b>
<b>P M:</b>	<b>4.73 ton/yr</b>	No. 2 Fuel Oil
<b>P M-10:</b>	<b>2.52 ton/yr</b>	Natural Gas
<b>S O 2:</b>	<b>163.23 ton/yr</b>	No. 2 Fuel Oil
<b>N O x:</b>	<b>47.30 ton/yr</b>	No. 2 Fuel Oil
<b>V O C:</b>	<b>0.47 ton/yr</b>	No. 2 Fuel Oil
<b>C O:</b>	<b>27.81 ton/yr</b>	Natural Gas

**\*\* aggregate drying: drum-mix plant \*\***

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-2 and 11.1-9 for a drum mix dryer which has the capability of combusting either fuel oil or natural gas:

<b>Pollutant:</b>	<b>Ef</b>	<b>lb/ton x</b>	<b>170</b>	<b>ton/hr x</b>	<b>8,760 hr/yr</b>
			<b>2,000</b>	<b>lb/ton</b>	

<b>Criteria Pollutant:</b>			
<b>P M:</b>	28	lb/ton =	<b>20,848.80 ton/yr</b>
<b>P M-10:</b>	6.5	lb/ton =	<b>4,839.90 ton/yr</b>
<b>VOC:</b>	0.0048	lb/ton =	<b>3.55 ton/yr</b>

The VOC emission factor for aggregate drying includes HAP emissions which are assumed to be VOC.

**\*\* conveying / handling \*\***

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

$$E = k \cdot (0.0032) \cdot ((U/5)^{1.3}) / ((M/2)^{1.4})$$

$$= 5.23E-03 \text{ lb PM-10/ton}$$

$$1.11E-02 \text{ lb PM/ton}$$

where k = 0.35 (particle size multiplier for <10um)  
0.74 (particle size multiplier for <30um)

U = 12 mph mean wind speed

M = 1.5 material moisture content (%)

$$\frac{170 \text{ ton/hr} \cdot 8,760 \text{ hrs/yr} \cdot E_f \text{ (lb/ton of material)}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$$

**Total PM 10 Emissions: 3.89 tons/yr**  
**Total PM Emissions: 8.23 tons/yr**

**\*\* unpaved roads \*\***

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 13.2.2.2.

I. Triaxle Dump Truck

$$17.5 \text{ trip/hr} \times 0.04 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 12,264 \text{ mile/yr}$$

$$E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b] / [(M_{dry}/0.2)^c] \cdot [(365-p)/365] \cdot (S/15)$$

$$= 5.96 \text{ lb PM/mile}$$

$$= 1.55 \text{ lb PM-10/mile}$$

where k = 10 (particle size multiplier, PM30) (k= 2.6 for PM10)

s = 4.8 mean % silt content of unpaved plant roads

a = 0.8 Constant for PM30/PM-10

W = 24 tons, average vehicle weight

b = 0.5 Constant for PM30 (b = 0.4 for PM10)

Mdry = 0.2 surface material moisture content, % (default 0.2 (dry conditions) when using rainfall parameter)

c = 0.4 Constant for PM30 (c = 0.3 for PM10)

p = 125 number of days with at least 0.01 in of precipitation per year

S = 10 mph speed limit

$$PM = \frac{5.96 \text{ lb/mi} \times 12,264 \text{ mi/yr}}{2000 \text{ lb/ton}} = 36.53 \text{ tons/yr}$$

$$PM-10 = \frac{1.55 \text{ lb/mi} \times 12,264 \text{ mi/yr}}{2000 \text{ lb/ton}} = 9.50 \text{ tons/yr}$$

**\*\* unpaved roads \*\***

II. Front End Loader

$$27 \text{ trip/hr} \times 0.068 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 32,167 \text{ mile/yr}$$

$$E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b] / [(M_{dry}/0.2)^c \cdot [(365-p)/365]] \cdot (S/15)$$

$$= 5.75 \text{ lb PM/mile}$$

$$= 1.50 \text{ lb PM-10/mile}$$

where k = 10 (particle size multiplier, PM30) (k = 2.6 for PM10)  
s = 4.8 mean % silt content of unpaved plant roads  
a = 0.8 Constant for PM30/PM-10  
W = 35 tons, average vehicle weight  
b = 0.5 Constant for PM30 (b = 0.4 for PM10)  
Mdry = 0.2 surface material moisture content, % (default 0.2 (dry conditions) when using rainfall parameter)  
c = 0.4 Constant for PM30 (c = 0.3 for PM10)  
p = 125 number of days with at least 0.01 in of precipitation per year  
S = 8 mph speed limit

$$PM = \frac{5.75 \text{ lb/mi} \times 32,167 \text{ mi/yr}}{2000 \text{ lb/ton}} = 92.56 \text{ tons/yr}$$

$$PM-10 = \frac{1.50 \text{ lb/mi} \times 32,167 \text{ mi/yr}}{2000 \text{ lb/ton}} = 24.07 \text{ tons/yr}$$

**\*\* storage \*\***

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	PM Emissions tons/yr	PM-10 Emissions tons/yr
Course Aggregate	1.0	0.50	8000	0.11	0.04
Fine Aggregate	1.5	0.25	5000	0.08	0.03
RAP	1.0	0.25	5000	0.05	0.02
<b>Total</b>				<b>0.24</b>	<b>0.08</b>

Sample Calculation:

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

$$= 1.16 \text{ lb/acre/day}$$

where s = 1 % silt  
p = 125 days of rain greater than or equal to 0.01 inches  
f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = \frac{E_f \cdot sc \cdot (20 \text{ cuft/ton}) \cdot (365 \text{ day/yr})}{(2,000 \text{ lb/ton}) \cdot (43,560 \text{ sqft/acre}) \cdot (7 \text{ ft})}$$

where sc = 8,000 tons storage capacity

$$PM = 0.11 \text{ tons/yr} \quad P \text{ M-10: } 35\% \text{ of PM} = 0.04 \text{ tons/yr}$$

**\*\*cold mix VOC storage emissions \*\***

The following calculations determine the amount of VOC emissions created by the application of emulsified asphalt with 1.5% fuel oil in emulsified asphalt mix, based on 8,760 hours of use.

VOC Emission Factor = 0.105 weight percent flash-off of cold mix  
Potential Throughput (tons/yr) = 1,489,200 tons/yr stockpile mix

Potential VOC Emissions (tons/yr) = Potential Throughput (tons/yr) \* wt percent flash-off  
**Potential VOC Emissions = 1,563.66 tons/yr**

\* Weight percent flash-off is based on 7.0 percent by weight of emulsified asphalt in stockpile mix.

**\*\* summary of source emissions before controls \*\***

Criteria Pollutants:

<b>P M:</b>	<b>20,983.00 ton/yr</b>	
<b>P M-10:</b>	<b>4,876.14 ton/yr</b>	
<b>S O 2:</b>	<b>168.31 ton/yr</b>	
<b>N O x:</b>	<b>48.78 ton/yr</b>	
<b>V O C:</b>	<b>1,567.74 ton/yr</b>	(VOCs include HAPs from aggregate drying operation)
<b>C O:</b>	<b>28.68 ton/yr</b>	



**\*\* source emissions after controls \*\***

In order to qualify for the FESOP program, this facility must limit SO<sub>2</sub> emissions to less than 100 tons per year. Consequently, SO<sub>2</sub> emissions from the aggregate dryer must be limited to 94.92 tons per year (100 tons/yr - 5.08 tons/yr from the hot oil heater).

The following calculations determine the amount of emissions created by natural gas with a fuel usage limitation of 662.26 MMcf/yr for natural gas combustion.

Emissions of PM and PM-10 from aggregate drying operations are controlled with a 99.70 % control efficiency.

**Natural Gas:**  $\frac{75.6 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} \times 2,000 \text{ lb/ton}}$  \* Ef (lb/MMcf) = (ton/yr)

<b>P M:</b>	7.6 lb/MMcf =	<b>7.55E-03 ton/yr</b>
<b>P M-10:</b>	7.6 lb/MMcf =	<b>7.55E-03 ton/yr</b>
<b>S O 2:</b>	0.6 lb/MMcf =	<b>0.20 ton/yr</b>
<b>N O x:</b>	100.0 lb/MMcf =	<b>33.11 ton/yr</b>
<b>V O C:</b>	0.34 lb/MMcf =	<b>0.11 ton/yr</b>
<b>C O:</b>	84.0 lb/MMcf =	<b>27.81 ton/yr</b>

The following calculations determine the amount of emissions created by distillate fuel oil @ 0.5 % sulfur with a fuel usage limitation of 2,750,826 gal/yr.

**No. 2 Distillate Oil:**  $\frac{2,750,826 \text{ gal/yr}}{2,000 \text{ lb/ton}}$  \* Ef (lb/1,000 gal) = (ton/yr)

<b>P M:</b>	2.0 lb/1000 gal =	<b>8.25E-03 ton/yr</b>
<b>P M-10:</b>	1.0 lb/1000 gal =	<b>4.13E-03 ton/yr</b>
<b>S O 2:</b>	69.0 lb/1000 gal =	<b>94.92 ton/yr</b>
<b>N O x:</b>	20.0 lb/1000 gal =	<b>27.51 ton/yr</b>
<b>V O C:</b>	0.20 lb/1000 gal =	<b>0.28 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>6.88 ton/yr</b>

**Criteria Pollutant:**

<b>P M:</b>	2.0 lb/MMcf =	<b>8.25E-03 ton/yr</b>
<b>P M-10:</b>	7.6 lb/MMcf =	<b>7.55E-03 ton/yr</b>
<b>S O 2:</b>	69.0 lb/1000 gal =	<b>94.92 ton/yr</b>
<b>N O x:</b>	100 lb/MMcf =	<b>33.11 ton/yr</b>
<b>V O C:</b>	0.34 lb/MMcf =	<b>0.28 ton/yr</b>
<b>C O:</b>	84 lb/MMcf =	<b>27.81 ton/yr</b>

**Worst Case Fuel**

No. 2 Fuel Oil  
Natural Gas  
No. 2 Fuel Oil  
Natural Gas  
No. 2 Fuel Oil  
Natural Gas

Fuel Usage Limitations

Fuel Oil: #2 distillate oil

94.92 tons SO2/year limited	*	4730.4	Kgals	=	2,750.826 Kgals
163.23 tons SO2/year potential			year potential		year limited

Fuel equivalence limit for natural gas based on SO2 emissions from #2 distillate fuel oil:

0.20 n.g. potential emis. (ton/yr)	/	163.23 #2 F.O. potential emissions (ton/yr)
662.26 n.g. potential usage (MMCF/yr)		4730.40 #2 F.O. potential usage (kgal/yr)
=		0.0087 Kgal primary fuel MMCF n.g. burned

**\*\*cold mix VOC storage limitations \*\***

The following calculations determine the amount of VOC emissions created by the application of liquid binder for cold mix stockpiles, based on the source's use of emulsified asphalt with solvent as the liquid binder type. Emulsified asphalt with solvent is defined with the following properties:

Maximum Weight % of VOC solvent in binder	15.0 %
Weight % of VOC solvent in binder that evaporates:	46.4 %
Percent Oil Distillate	7 %

In order to qualify for the FESOP program, this source must limit VOC emissions to less than 100 tons per year. Deducting the VOC emitted from activities, VOC solvent usage as diluent in the liquid binder used in the production of cold mix asphalt from the plant shall be limited to 96.12 tons VOC emitted per twelve (12) consecutive month period. This is equivalent to limiting the usage of emulsified asphalt with solvent liquid binder to 207.1 tons of VOC solvent per 12 consecutive month period, based on 46.4 percent (%) by weight of the VOC solvent in the liquid blend evaporating.

**\*\* source emissions after controls \*\***

aggregate drying:		nonfugitive		
<b>P M:</b>	20,849 ton/yr x	0.3%	emitted after controls =	<b>62.55 ton/yr</b>
<b>P M-10:</b>	4,840 ton/yr x	0.3%	emitted after controls =	<b>14.52 ton/yr</b>
conveying & handling:		fugitive		
<b>P M:</b>	8.18 ton/yr x	50%	emitted after controls =	<b>4.09 ton/yr</b>
<b>P M-10:</b>	3.89 ton/yr x	50%	emitted after controls =	<b>1.95 ton/yr</b>
unpaved roads:		fugitive		
<b>P M:</b>	129.09 ton/yr x	50%	emitted after controls =	<b>64.54 ton/yr</b>
<b>P M-10:</b>	33.56 ton/yr x	50%	emitted after controls =	<b>16.78 ton/yr</b>
storage piles:		fugitive		
<b>P M:</b>	0.24 ton/yr x	50%	emitted after controls =	<b>0.12 ton/yr</b>
<b>P M-10:</b>	0.08 ton/yr x	50%	emitted after controls =	<b>0.04 ton/yr</b>
cold mix VOC storage*:		fugitive		
<b>VOC:</b>	96.12 ton/yr x	100%	emitted after controls =	<b>96.12 ton/yr</b>

**\*\* summary of source emissions after controls \*\***

Criteria Pollutant:	Non-Fugitive	Fugitive	Total
<b>PM:</b>	<b>62.70 ton/yr</b>	<b>68.75 ton/yr</b>	<b>131.45 ton/yr</b>
<b>PM-10:</b>	<b>14.61 ton/yr</b>	<b>18.77 ton/yr</b>	<b>33.38 ton/yr</b>
<b>S O 2:</b>	<b>100.00 ton/yr</b>	<b>0.00 ton/yr</b>	<b>100.00 ton/yr</b>
<b>N O x:</b>	<b>34.59 ton/yr</b>	<b>0.00 ton/yr</b>	<b>34.59 ton/yr</b>
<b>V O C:</b>	<b>3.88 ton/yr</b>	<b>96.12 ton/yr</b>	<b>100.00 ton/yr</b>
<b>C O:</b>	<b>28.68 ton/yr</b>	<b>0.00 ton/yr</b>	<b>28.68 ton/yr</b>

**\*\* miscellaneous \*\***

**326 IAC 7 Compliance Calculations:**

The following calculations determine the maximum sulfur content of distillate fuel oil allowable by 326 IAC 7:

$$\begin{array}{rcl} 0.5 \text{ lb/MMBtu} \times 140,000 \text{ Btu/gal} & = & 70 \text{ lb/1000gal} \\ 70 \text{ lb/1000gal} / 142 \text{ lb/1000 gal} & = & 0.5 \% \end{array}$$

Sulfur content must be less than or equal to 0.5% to comply with 326 IAC 7.

**326 IAC 6-3-2 Compliance Calculations:**

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates in excess of 30 tons per hour:

$$\text{limit} = 55 * (170 ^{0.11}) - 40 = 56.76 \text{ lb/hr}$$

**PM-10 Emission Limit:**

$$\begin{array}{rcl} (100.0 \text{ tons PM-10/yr} - 18.85 \text{ tons PM-10/yr from other sources}) & & \\ = 81.2 \text{ tons PM-10/yr} & = & 18.5 \text{ lb/hr, based on 8,760 hr/yr} \\ & & 0.11 \text{ lb PM10/ton asphalt, based on 170 tons asphalt /hr} \end{array}$$

PM-10 emissions from the aggregate dryer are controlled to 14.52 tons/yr < 81.2 tons/yr (Will comply)

**40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) Compliance Calculations:**

This asphalt plant was constructed in 1971, which was prior to June 11, 1973, therefore, 40 CFR Part 60.90, Subpart I does not apply.

### Hazardous Air Pollutants (HAPs)

#### \*\* aggregate dryer burner\*\*

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.5 % sulfur, from the aggregate dryer burner, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-11.

Hazardous Air Pollutants (HAPs):		75.6 MMBtu/hr * 8760 hr/yr	* Ef (lb/10 <sup>12</sup> Btu) = (ton/yr)	
		2,000 lb/ton	Potential To Emit	Limited Emissions
<b>Arsenic</b>	4.2 lb/10 <sup>12</sup> Btu =		1.39E-03 ton/yr	4.17E-06 ton/yr
<b>Beryllium:</b>	2.5 lb/10 <sup>12</sup> Btu =		8.28E-04 ton/yr	2.48E-06 ton/yr
<b>Cadmium:</b>	11 lb/10 <sup>12</sup> Btu =		3.64E-03 ton/yr	1.09E-05 ton/yr
<b>Chromium:</b>	67 lb/10 <sup>12</sup> Btu =		2.22E-02 ton/yr	6.66E-05 ton/yr
<b>Lead:</b>	8.9 lb/10 <sup>12</sup> Btu =		2.95E-03 ton/yr	8.84E-06 ton/yr
<b>Manganese:</b>	14 lb/10 <sup>12</sup> Btu =		4.64E-03 ton/yr	1.39E-05 ton/yr
<b>Mercury:</b>	3 lb/10 <sup>12</sup> Btu =		9.93E-04 ton/yr	2.98E-06 ton/yr
<b>Nickel:</b>	170 lb/10 <sup>12</sup> Btu =		5.63E-02 ton/yr	1.69E-04 ton/yr
		Total HAPs =	9.29E-02 ton/yr	2.79E-04 ton/yr

#### \*\* aggregate drying: drum-mix plant \*\*

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-9 for a drum mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (natural gas combustion).

Pollutant:	Ef	lb/ton x	170	ton/hr x	8760 hr/yr
			2000	lb/ton	
Hazardous Air Pollutants (HAPs):				Potential To Emit	Limited Emissions
<b>Benzene:</b>	2.80E-04	lb/ton =		0.21 ton/yr	0.21 ton/yr
<b>Ethylbenzene:</b>	2.20E-03	lb/ton =		1.64 ton/yr	1.64 ton/yr
<b>Formaldehyde:</b>	7.40E-04	lb/ton =		0.55 ton/yr	0.55 ton/yr
<b>Hexane:</b>	9.2E-04	lb/ton =		0.69 ton/yr	0.69 ton/yr
<b>Isooctane:</b>	4.0E-05	lb/ton =		0.03 ton/yr	0.03 ton/yr
<b>Methyl chloroform:</b>	4.8E-05	lb/ton =		0.04 ton/yr	0.04 ton/yr
<b>Toluene:</b>	1.50E-04	lb/ton =		0.11 ton/yr	0.11 ton/yr
<b>**Total PAH:</b>	1.90E-04	lb/ton =		0.14 ton/yr	0.14 ton/yr
<b>Xylene:</b>	2.00E-04	lb/ton =		0.15 ton/yr	0.15 ton/yr
		Total HAPs =		3.55 ton/yr	3.55 ton/yr

\*\* total PAH includes 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(e)pyrene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Perylene, Phenanthrene, and Pyrene.

**\*\* summary of source HAP emissions potential to emit \*\***

Hazardous Air Pollutants (HAPs):

Arsenic:	0.001 ton/yr
Benzene:	0.208 ton/yr
Beryllium:	0.001 ton/yr
Cadmium:	0.004 ton/yr
Chromium:	0.022 ton/yr
Ethylbenzene:	1.638 ton/yr
Formaldehyde:	0.551 ton/yr
Hexane:	0.69 ton/yr
Isooctane:	0.03 ton/yr
Methyl chloroform:	0.04 ton/yr
Lead:	0.003 ton/yr
Manganese:	0.005 ton/yr
Mercury:	0.001 ton/yr
Nickel:	0.056 ton/yr
Toluene:	0.112 ton/yr
Total PAH:	0.141 ton/yr
Xylene:	0.149 ton/yr
Total:	3.64 ton/yr

**\*\* summary of source HAP limited emissions \*\***

Hazardous Air Pollutants (HAPs):

Arsenic:	0.000 ton/yr
Benzene:	0.208 ton/yr
Beryllium:	0.000 ton/yr
Cadmium:	0.000 ton/yr
Chromium:	0.000 ton/yr
Ethylbenzene:	1.638 ton/yr
Formaldehyde:	0.551 ton/yr
Hexane:	0.685 ton/yr
Isooctane:	0.030 ton/yr
Methyl chloroform:	0.036 ton/yr
Lead:	0.000 ton/yr
Manganese:	0.000 ton/yr
Mercury:	0.000 ton/yr
Nickel:	0.000 ton/yr
Toluene:	0.112 ton/yr
Total PAH:	0.141 ton/yr
Xylene:	0.149 ton/yr
Total:	3.55 ton/yr